

Claims

1. System for reading a document (6) provided with machine-readable holder details and establishing whether a person presenting the document (6) has a predetermined right,

5 which document at least contains a chip (5) containing biometric data on a holder as well as data with a predetermined relationship to the holder details, and wherein the system comprises:

- a reader (8) for reading the chip (5) and the machine-readable holder details;
- a memory (10) containing details with regard to the predetermined right of the holder;
- 10 • a biometric feature scanner (11);
- a processing unit (9) that is connected to the reader (8), the memory (10) and the biometric feature scanner (11) and is equipped to:

- establish the authenticity of the chip and the data with the aid of a public key encryption technology;

15 • receive the biometric data on the holder from the chip, from the reader (8);
• receive the biometric data on the person presenting the document from the biometric feature scanner (11) and to compare these with the biometric data on the holder to determine whether the person presenting the document is the holder;

- receive the holder details via the reader (8), check the predetermined relationship 20 between the holder details and the data and read the predetermined right of the holder from the memory (10);

- provide a signal to indicate the predetermined right for the person presenting the document if the chip (5) and the data are authentic, the predetermined relationship has been established and the person presenting the document is the same as the 25 holder.

2. System according to Claim 1, wherein the document is a travel document.

3. System according to Claim 1 or 2, wherein the processing unit (9) is equipped to 30 compare the holder's details, using a one-way function, with holder's details stored in the memory (10).

4. System according to Claim 3, wherein the one-way function is a hashing function.

5. Method for reading a document (6) provided with machine-readable holder details and establishing whether a person presenting the document (6) has a predetermined right, which document contains at least one chip (5) containing biometric data on a holder as well
5 as data having a predetermined relationship to the holder details, and wherein the system comprises a reader (8) for reading the chip (5) and the machine-readable holder details, a memory (10) containing data on the predetermined right of the holder, a biometric feature scanner (11) and a processing unit (9) that is connected to the reader (8), the memory (10) and the biometric feature scanner (11), wherein the method comprises the following
10 operations:

- establishment of the authenticity of the chip and the data with the aid of a public key encryption technology;
- receipt of the biometric data on the holder from the chip;
- receipt of the biometric data on the person presenting the document and
15 comparison with the biometric data on the holder to determine whether the person presenting the document is the holder;
- receipt of the holder details, checking of the specific relationship between the holder details and the data and reading the predetermined right of the holder from the memory (10);
- provision of a signal to indicate the predetermined right for the person presenting
20 the document if the chip (5) and the data are authentic, the predetermined relationship has been established and the person presenting the document is the same as the holder.

25 6. Computer program that can be loaded by a system for reading a document (6) provided with machine-readable holder details and establishing whether a person presenting the document (6) has a predetermined right, which document contains at least one chip (5) containing biometric data on a holder as well as data having a predetermined relationship to the holder details, and wherein the system comprises a reader (8) for reading the chip (5) and the machine-readable holder details, a memory (10) containing data on the predetermined right of the holder, a biometric feature scanner (11) and a processing unit (9) that is connected to the reader (8), the memory (10) and the biometric feature scanner (11), wherein the computer program can provide the system with the following functionality:
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- establishment of the authenticity of the chip (5) and the data with the aid of a public key encryption technology;
- receipt of the biometric data on the holder from the chip (5);
- receipt of the biometric data on the person presenting the document and comparison with the biometric data on the holder to determine whether the person presenting the document is the holder;
- receipt of the holder details, checking of the specific relationship between the holder details and the data and reading the predetermined right of the holder from the memory (10);
- provision of a signal to indicate the predetermined right for the person presenting the document if the chip (5) and the data are authentic, the predetermined relationship has been established and the person presenting the document is the same as the holder.

15 7. Carrier provided with a computer program according to Claim 6.

8. Document provided with machine-readable holder details and a chip (5), which chip (5) is provided with a processing unit (14) and memory (16) connected thereto and an input/output unit (15), wherein the memory (16) contains biometric data on a holder, as well as data that have a predetermined relationship to the holder details, as well as instructions for making the processing unit carry out the following operations:

- communication with a system according to Claim 1 to enable the authenticity of the chip (5) to be established with the aid of a public key encryption technology;
- transmission of the biometric data on the holder and the data from the memory (16) to the system.

25 9. Document according to Claim 8, wherein the document is a travel document (6).

10. Document according to Claim 9, wherein the chip (5) is an integral part of the travel 30 document.

11. Document according to one of Claims 8 - 10, wherein the input/output unit is equipped for contact-free communication.

12. Document according to one of Claims 8 - 11, wherein the chip (5) is equipped as a transponder unit.

5 13. Document according to one of Claims 8 - 12, wherein the predetermined relationship is based on hashing the holder's details.